OPTISource™

LED light source for wavelength
850/1300/1310/1550

user manual

model no. 257821/257822/257823

Hobbes®
INNOVATION

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The OPTISouce is a high performance stabilized source that is widely used in fiber network installation and maintenance. Hobbes offers 3 models for the Laser source series: 850/1300 for multimode, 1310/1550 for single-mode optical fibers, and an “all in one” model for all 4 wavelengths. Hobbes OPTISource series represents advance technology with high performance in fiber loss measurement, fiber attenuation measurement, and fiber cable identification by using modulated light source.

Features

- Four wavelength 3 model combinations
* 850/1300 multimode
* 1310/1550 single mode
* 850/1300/1310/1550 “all in one”
- C.W. and 1KHz, 2KHz, 270Hz modulated signals
- Auto-identify wavelength indicator (Full compatibility with Hobbes Optical Power Meter to be use as a complete set)

- LED indicators
- Auto power off for power saving

Key definition

Marking	Function
λ	Light wavelength selection (850nm, 1300nm, 1310nm, 1550nm)
f	Modulated signals selection (CW, 1KHz, 2KHz, 270Hz)
Ⓐ	Auto-identify wavelength indicator
⏻	Power On/Off

LED definition

Marking	Function
Power	Power Auto On/Off Battery-low indicator
850nm, 1300nm, 1310nm,1550nm	Wavelength indicators
1KHz, 2KHz, 270Hz (3 LEDS)	Modulated signal indicators
Auto-identify	Auto-identify wavelength indicator

OPTISource Specifications

Wavelengths	850/1300nm, 1310/1550nm, 850/1300/1310/1550nm
Spectral width	≤ 5nm
Output power	≥ -13dBm @ 850/1300nm; ≥ -5dBm @ 1310/1550nm
Stability	±0.15dB/8hr@1310/1550nm; ±0.25dB/8hr@850/1300nm
Connector type	FC/PC (can be exchange SC, ST)
Auto power off	5 min. auto power off
Frequency	1KHz, 2KHz, 270Hz
Battery	4*AAA battery

Instructions for operation

Step 1: Select the power switch function to turn unit "on/off"

Note: The power switch has three functions; please follow instructions below for different demands:

Power On with Auto-off

Press the “Power” button for 1 second to turn the unit “on”. note: The top LED will be display a Red light indicating the power function is set to “Auto off”.

Power On with Auto-on

Press the “Power” button and hold for about 4 seconds to deactivate the “auto-off” function, note: The LED will display a Green light indicating the unit will not turn off automatically.

Power off

Press the “Power” button and hold for 4 seconds to turn the unit off.

Battery-low indicator

The Power LED will blink Red or Green Light to indicate the battery is low.

Note: The signal of the color might be Red or Green base on the auto on/off function.

Safety Feature

If you forgot to turn off the power switch, the auto off function will be activated and turn the unit off within 30 mins.

Step 2: Selecting the wavelength for 850/1300/ 1310/1550nm.

Pressing the" λ " button selects a wavelength, then the corresponding “wavelength” LED will light up.

Step 3: Selecting the modulated frequency signal. Press the “f” button to add the modulated frequency for the fiber. Then the corresponding “modulated frequency” LED will light up.

Before you start to select any frequencies, the modulated condition is CW without any LED lit. When you change the frequencies to 1KHz, 2KHz, or 270Hz signal, the modulation frequency will be different. note: The default frequency is always set to CW.

Step 4: Auto-identify wavelength
Pressing the “Auto-identify” button will auto-identify the sourcing wavelength, the “Auto-identify” LED will light up. This function requires a compatible SMARTFiber or SMARTFiber Pro (Hobbes SMARTFiber Power Meter) as a complete set to identify and automatically switch to a corresponding wavelength, without having to select the wavelength manually. note: This function is not operational on other brand’s power meters.

Optical Fiber Source is classified as a CLASS 1 LASER product

But it is highly recommended avoiding exposure to eyes. This device is used for its intended purposes only, any use of this product other than its intended purpose, may or can cause severe harm. Use Cautiously.

Warning:

Keep the device safely stored and keep the device away from children!! Uses Class 1 Laser Radiation. DO NOT LOOK DIRECTLY INTO THE LASER BEAM!

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